

Plungers

Plungers

Expanded Spec.



Product Name	Ball Plungers - Economy	Standard	Stainless Steel	Roller	Load Adjustable	Plastic Body
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Fine Thread	Short	Long	Wrenches for Ball Plungers	Hex Screw	Flanged	Ball Buttons	Press Fit Plungers - Standard	Roller
1765	1765	1766, 1767	1767	1768	1768	1768	1769	1769



Ball Buttons - Tapped	Roller Plungers - Compact	Surface Mount Type	Hex Screw	Spring Plungers - Steel	Stainless Steel	Wrenches for Spring Plungers	Block Plungers
1769	1770	1770	1770	1771	1772	1772	1772



Short Spring Plungers - Steel	Stainless Steel	Micro Spring Plungers - Standard	Short	Set Screw Type	Micro Stroke Pins	Stroke Pins	Spring Plungers - Tapped Tip
1773	1773	1774	1774	1774	1775	1775	1776



Long Sleeve Plungers	With Hexagon Socket Hole	With Hex Nose	Flat Tip	For Inclined Surface	Flanged	Indexing Plungers - Standard	Flanged
1776	1777	1777	1778	1778	1778	1779	1780



Indexing Plungers - Tapped Tip	Short Threaded	Compact	Long	Pilot, Precision	Knobs for Press Fit Plungers	Knobless Standard	Knobless Large Screws for Mounting Knobs
1780	1781	1782	1782	1783	1783	1784	1784











Indexing Plungers - Coarse/Fine Thread Lever	Switch Lever Type	Push Type	Plate Mount Type	Fine Thread / Coarse Thread	Ball Lock Pins - Spring Type	Push Type	Blocks with Plungers
1785	1786	1786	1786	1787	1788	1788	1766

Plungers - Overview

Ball Plungers





As the tip ball strokes, it can be used for tentative locating the workpiece or indexing.




Type	Economy	Standard	Roller	Load Adjustable	Plastic	Fine Thread	Short	Long
								
Features	By omitting the hardening on the plunger, dramatically competitive pricing is achieved.	General Ball Plunger	As the ball rotates smoothly, it prevents the mating parts from being damaged.	By compressing the inner spring, the load can be adjusted.	Ball Plunger with the plastic body	Fine threads provide an easy fine adjustment of strokes.	As the overall length is shorter than conventional ball plungers by 30%, it can be mounted to a thin plate.	Long overall length enables the use of nuts. Length Selectable Type is also available.
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Some products have color marked hex socket for product identification.

Roller Plungers













As the tip bearing stroke is longer than that of ball plungers, it is suitable for positioning of sliding workpieces.

Type	Hex Screw	Flanged	Press Fit	Press Fit Rollers
				
Features	As the plunger bodies are screw shaped, easy positioning of the tips is possible.	Flanges keep constant heights from the plate.	Ball Plungers for press-fit mounting. It keeps constant heights from the plate.	Press Fit Plungers with smooth rotating balls.
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Type	Compact	Surface Type	Hex Screw
			
Features	Compact Roller Plungers. The load can be adjusted.	Can be mounted to flat locations. The position can be adjusted with slotted holes.	Can be mounted to a plate with tapped holes.
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Spring Plungers









The pin shaped heads make the plunger useful for pushing the workpiece, or used as stoppers.

Type	Standard	Short	Block Integrated	Micro	Micro Stroke Pins	Stroke Pins	Tapped Tip	Long Sleeve	With Hexagon Socket Hole	With Hex Nose	Flat Tip	Flanged
												
Features	General Spring Plungers.	A Spring Plunger with both short length and stroke.	Block and Plunger are integrated.	The Small Diameter Type with $\phi 1.5 \sim 5$ in O.D. It contributes to space-saving.	It has a resin tip, thus suitable for holding the base.	Bushing built-in plungers specialized in holding.	Stop pins can be mounted on the tip.	The long pin-guide makes the plunger able to bear diagonal loads.	A wrench can be used on the hex socket at the pin tip to install the plungers.	As the pin is hex shape, users can mount it using a spanner.	Suitable for working with its flat tip on the workpiece.	Flanges keep constant heights from the plate.
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Indexing Plungers



The pin can be pushed in/out manually by using a knob or lever. Suitable for tentative workpiece positioning.

Type	Standard	Flanged	Tapped Tip	Short Threaded	Compact	Long	Pilot, Precision Grade	Press Fit
								
Features	Most general indexing plungers.	Flange plate allows for positioning adjustment.	The attachment can be mounted on the tip.	Has shorter threads than those of the Standard Type and saves space.	As the overall length is 2/3 of conventional products, it can be used in the limited space.	Having longer mounting threads than those of Standard Type, it can be mounted to a thick plate.	The combination of pilots and the inner structure keeps high repeatability.	Can be mounted by press-fit, instead of using screws.
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Ball Lock Pins

The pins and their side balls can smoothly locate and fix the workpiece.

Type	Knobless	Lever Type	Push Type	Plate Mount Type
				
Features	Suitable knob for each purpose can be mounted.	Can be used in locations with limited spaces.	Push Type can be operated by one finger.	Can be used in locations with limited spaces.
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Type	Spring	Push Type
		
Features	The spring moves the ball. Economical products.	The ball can be manually operated.
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